

ABSTRACT

A projection type cathode ray tube which has excellent optical characteristics and endurance thanks to the enhanced cooling effect and is manufactured efficiently at low cost. The thickness of a panel is uniform throughout the panel except its peripheral portion contacting a coupler (a cooling liquid holder). The cooling effect on the panel by a cooling system is uniform throughout the entire panel, enhancing the optical characteristics and endurance of the panel. In the manufacturing process applying heat to the panel, a reduction in the cooling temperature and the cooling time causes no difference in temperature, achieving uniform cooling. The panel except its peripheral portion is a curved portion in the concave form. For the interest of higher adhesion, it is sufficient to polish only the peripheral portion adhering to the edge of the opening on the rear side of the coupler, which reduces the polishing time.